

SEQUENCE LISTING



RECEIVED

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TECH CENTER 1500/2000

<110> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589

<141> 1998-07-15

<150> 60/052,697

<151> 1997-07-16

<160> 18

<170> PatentIn Ver. 2.1

<210> 1

<211> 12

<212> PRT

<213> Unknown

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<221> PEPTIDE

<222> (1)..(12)

<223> Myosin light chain 1

<220>

<221> PEPTIDE

<222> (1)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (2)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (7)

<223> May be either Pro or Ala.

<400> 1

Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala

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5

10

<210> 2
<211> 12
<212> PRT
<213> Unknown

<220>
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<223> Myosin light chain 1

<220>
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<222> (1)
<223> May be any amino acid.

<400> 2
Xaa Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro
1 5 10

<210> 3
<211> 11
<212> PRT
<213> Unknown

<220>
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<223> malate dehydrogenase

<220>
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<222> (1)
<223> May be any amino acid.

<220>
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<222> (8)
<223> May be any amino acid.

<400> 3
Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile
1 5 10

<210> 4

<211> 13
<212> PRT
<213> Unknown

<220>
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<222> (1)..(13)
<223> ATP g synthase chain

<220>
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<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<400> 4
Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile
1 5 10

<210> 5
<211> 10
<212> PRT
<213> Unknown

<220>
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<222> (1)..(10)
<223> ATP synthase oligomycin conferring protein

<220>
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<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<400> 5
Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
1 5 10

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<211> 10
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<213> Unknown

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<222> (1)..(10)
<223> serum albumin

<220>
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<222> (1)
<223> May be any amino acid.

<400> 6
Xaa Ala His Lys Ser Glu Ile Ala His Arg
1 5 10

<210> 7
<211> 11
<212> PRT
<213> Unknown

<220>
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<223> triose phosphate isomerase

<220>
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<223> May be any amino acid.

<220>
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<222> (4)
<223> May be Arg or Leu.

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<220>

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<222> (1)..(209)

<223> Human cardiac troponin I

<220>

<223> Swiss prot identification number P19429

<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

<400> 8

Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
 165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
 195 200 205

Ser

<210> 9
 <211> 186
 <212> PRT
 <213> Unknown

<220>
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 <222> (1)..(186)
 <223> Human slow skeletal troponin I

<220>
 <223> Swiss prot identification number P19237

<300>
 <303> Genomics
 <304> 7
 <305> 3
 <306> 346-357
 <307> Jul-1990

<400> 9
 Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
 1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
 20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
 35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
 50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr

65		70		75		80									
Asp	Ile	Glu	Ala	Lys	Cys	Leu	His	Asn	Thr	Arg	Glu	Ile	Lys	Asp	Leu
				85					90					95	
Lys	Leu	Lys	Val	Met	Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Pro	Leu
			100					105					110		
Arg	Arg	Val	Arg	Val	Ser	Ala	Asp	Ala	Met	Leu	Arg	Ala	Leu	Leu	Gly
		115					120					125			
Ser	Lys	His	Lys	Val	Ser	Met	Asp	Leu	Arg	Ala	Asn	Leu	Lys	Ser	Val
		130				135					140				
Lys	Lys	Glu	Asp	Thr	Glu	Lys	Glu	Arg	Pro	Val	Glu	Val	Gly	Asp	Trp
145					150					155					160
Arg	Lys	Asn	Val	Glu	Ala	Met	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Met
			165						170						175
Phe	Asp	Ala	Ala	Lys	Ser	Pro	Thr	Ser	Gln						
			180						185						

<210> 10
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 <212> PRT
 <213> Unknown

<220>
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 <222> (1)..(181)
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<220>
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<300>
 <303> Biochim. Biophys. Acta
 <304> 1217
 <306> 338-340
 <307> 1994-04-06

<400> 10
 Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
 1 5 10 15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu

C1
Cont

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Glu	Ser	Arg	Arg	Glu	Ala	Glu	Lys	Gln	Asn	Tyr	Leu	Ala	Glu	His	Cys
		35					40					45			
Pro	Pro	Leu	His	Ile	Pro	Gly	Ser	Met	Ser	Glu	Val	Gln	Glu	Leu	Cys
	50					55					60				
Lys	Gln	Leu	His	Ala	Lys	Ile	Asp	Ala	Ala	Glu	Glu	Glu	Lys	Tyr	Asp
65					70					75				80	
Met	Glu	Val	Arg	Val	Gln	Lys	Thr	Ser	Lys	Glu	Leu	Glu	Asp	Met	Asn
			85					90						95	
Gln	Lys	Leu	Phe	Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Pro	Leu	Arg
		100					105						110		
Arg	Val	Arg	Met	Ser	Ala	Asp	Ala	Met	Leu	Lys	Ala	Leu	Leu	Gly	Ser
	115						120					125			
Lys	His	Lys	Val	Cys	Met	Asp	Leu	Arg	Ala	Asn	Leu	Lys	Gln	Val	Lys
	130					135					140				
Lys	Glu	Asp	Thr	Glu	Lys	Glu	Arg	Asp	Leu	Arg	Asp	Val	Gly	Asp	Trp
145					150				155					160	
Arg	Lys	Asn	Ile	Glu	Glu	Lys	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Met
			165					170						175	
Phe	Glu	Ser	Glu	Ser											
			180												

<210> 11
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 <212> PRT
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 <223> Rat cardiac troponin I

<220>
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<300>
 <303> Biochemistry

<304> 30
 <305> 3
 <306> 707-712
 <307> 1991-01-22

<400> 11

Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
 180 185 190

Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe
 195 200 205

Glu Gly
 210

Cl
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<210> 12
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<223> Rat slow skeletal troponin I

<220>
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<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14327-14333
<307> 1989-08-25

<400> 12
Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
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Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95

Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln
 180 185

<210> 13
 <211> 181
 <212> PRT
 <213> Unknown

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<220>
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 Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
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Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
 20 25 30

Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
 35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65 70 75 80

Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110

C1
 Cont

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175

Phe Glu Ser Glu Ser
180

<210> 14
<211> 287
<212> PRT
<213> Unknown

<220>
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<222> (1)..(287)
<223> Human cardiac troponin T

<220>
<223> Swiss prot identification number P45379

<300>
<303> FEBS Lett.
<304> 328
<305> 1-2
<306> 139-144
<307> 1993-08-09

<400> 14
Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Glu Gln Glu
1 5 10 15

Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
20 25 30

Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
35 40 45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro

C1
Cont

50	55	60
Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp		
65	70	75 80
Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys		
	85	90 95
Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg		
	100	105 110
Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg		
	115	120 125
Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu		
	130	135 140
Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu		
	145	150 155 160
Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala		
	165	170 175
Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln		
	180	185 190
Thr Glu Arg Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys		
	195	200 205
Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn		
	210	215 220
Glu Asp Gln Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr		
	225	230 235 240
Asn Leu Glu Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln		
	245	250 255
Lys Tyr Glu Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys		
	260	265 270
Val Ser Lys Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys		
	275	280 285

<210> 15
 <211> 277
 <212> PRT

<213> Unknown

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<222> (1)..(277)

<223> Human slow skeletal troponin T

<220>

<223> Swiss prot identification number P13805

<300>

<303> J. Biol. Chem.

<304> 262

<305> 33

<306> 16122-16126

<307> 1987-11-25

<400> 15

Ser Asp Thr Glu Glu Gln Glu Tyr Glu Glu Glu Gln Pro Glu Glu Glu
1 5 10 15

Ala Ala Glu Glu Glu Glu Glu Ala Pro Glu Glu Pro Glu Pro Val Ala
20 25 30

Glu Pro Glu Glu Glu Arg Pro Lys Pro Ser Arg Pro Val Val Pro Pro
35 40 45

Leu Ile Pro Pro Lys Ile Pro Glu Gly Glu Arg Val Asp Phe Asp Asp
50 55 60

Ile His Arg Lys Arg Met Glu Lys Asp Leu Leu Glu Leu Gln Thr Leu
65 70 75 80

Ile Asp Val His Phe Glu Gln Arg Lys Lys Glu Glu Glu Glu Leu Val
85 90 95

Ala Leu Lys Glu Arg Ile Glu Arg Arg Arg Ser Glu Arg Ala Glu Gln
100 105 110

Gln Arg Phe Arg Thr Glu Lys Glu Arg Glu Arg Gln Ala Lys Leu Ala
115 120 125

Glu Glu Lys Met Arg Lys Glu Glu Glu Glu Ala Lys Lys Arg Ala Glu
130 135 140

Asp Asp Ala Lys Lys Lys Lys Val Leu Ser Asn Met Gly Ala His Phe
145 150 155 160

Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
 165 170 175

Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
 180 185 190

Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp
 195 200 205

Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
 210 215 220

Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
 225 230 235 240

Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
 245 250 255

Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val
 260 265 270

Gly Gly Arg Trp Lys
 275

<210> 16
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 <212> PRT
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 <303> DNA Cell Biol.
 <304> 13
 <305> 3
 <306> 217-233
 <307> MAR-1994

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 Ser Asp Glu Glu Val Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
 1 5 10 15

Glu Ala Gln Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
 20 25 30
 Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
 35 40 45
 Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
 50 55 60
 Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala
 65 70 75 80
 Arg Lys Lys Glu Glu Glu Glu Leu Val Ala Leu Lys Glu Arg Ile Glu
 85 90 95
 Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu Lys
 100 105 110
 Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg Glu
 115 120 125
 Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys Lys
 130 135 140
 Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys Ala
 145 150 155 160
 Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys Lys
 165 170 175
 Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Gly Glu
 180 185 190
 Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Glu Thr Leu His Gln
 195 200 205
 Leu Glu Ile Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln Lys
 210 215 220
 Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys His
 225 230 235 240
 Ser Lys Lys Ala Gly Thr Pro Ala Lys Gly Lys Val Gly Gly Arg Trp
 245 250 255

Lys

<210> 17
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<212> PRT
<213> Unknown

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<220>
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<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14471-14477
<307> 1989-08-25

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Glu Asp Trp Ser Glu Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
20 25 30
Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
35 40 45
Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
50 55 60
Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
65 70 75 80
Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
85 90 95
Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
100 105 110
Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
115 120 125
Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu

130	135	140
Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln		
145	150	155 160
Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg		
165	170	175
Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met		
180	185	190
Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser		
195	200	205
Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu		
210	215	220
Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg		
225	230	235 240
Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu		
245	250	255
Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn		
260	265	270
Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg		
275	280	285
Gly Lys Ala Lys Val Thr Gly Arg Trp Lys		
290	295	

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 <212> PRT
 <213> Unknown

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 <223> Rat fast skeletal troponin T

 <220>
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<300>
 <303> J. Mol. Biol.

<304> 188
<305> 3
<306> 313-324
<307> 1986-Apr-5

<400> 18

Ser Asp Glu Glu Thr Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
1 5 10 15

Glu Ala Gln Glu Glu Val Gln Glu Glu Ala Pro Glu Pro Glu Glu
20 25 30

Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
35 40 45

Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
50 55 60

Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
65 70 75 80

Ala Arg Lys Lys Glu Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
85 90 95

Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
100 105 110

Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
115 120 125

Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
130 135 140

Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
145 150 155 160

Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
165 170 175

Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
180 185 190

Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
195 200 205

Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
210 215 220

Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
225 230 235 240

His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg
245 250 255

Trp Lys